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### 1 [XML stream processing using tree-edit distance embeddings](#)

Minos Garofalakis, Amit Kumar  
March ACM Transactions on Database Systems (TODS), Volume 30 Issue 1  
2005

**Publisher:** ACM

Full text available: [pdf\(726.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 209, Citation Count: 3

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution ...

Keyw ords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

## 2 Online duplicate document detection: signature reliability in a dynamic retrieval environment



Jack G. Conrad, Xi S. Guo, Cindy P. Schriber

November 2003 CI KM '03: Proceedings of the twelfth international conference on Information and knowledge management

**Publisher:** ACM

Full text available: [pdf\(215.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 118, Citation Count: 9

As online document collections continue to expand, both on the Web and in proprietary environments, the need for duplicate detection becomes more critical. Few users wish to retrieve search results consisting of sets of duplicate documents, whether identical ...

Keyw ords: data management, doc signatures, duplicate document detection

## 3 Verifying distributed erasure-coded data



James Hendricks, Gregory R. Ganger, Michael K. Reiter

August 2007 PODC '07: Proceedings of the twenty-sixth annual ACM symposium on Principles of distributed computing

**Publisher:** ACM

Full text available: [pdf\(295.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 128, Citation Count: 0

Erasure coding can reduce the space and band width overheads of redundancy in fault-tolerant data storage and delivery systems. But it introduces the fundamental difficulty of ensuring that all erasure-coded fragments correspond to the same block of ...

Keyw ords: erasure codes, fault-tolerant storage, homomorphic fingerprinting

## 4 Communications of the ACM: Volume 51 Issue 6



June 2008 issue Volume 51 Issue 6

2008

**Publisher:** ACM

Full text available: [pdf\(8.89 MB\)](#) [digital edition](#) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 284, Downloads (12 Months): 284, Citation Count: 0

**5** Communications of the ACM: Volume 51 Issue 3



March issue Volume 51 Issue 3  
2008

**Publisher:** ACM

Full text available: pdf(7.56 MB) digital  
edition.

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 98, Downloads (12 Months): 483, Citation Count: 0

**6** Communications of the ACM: Volume 51 Issue 4



April issue Volume 51 Issue 4  
2008

**Publisher:** ACM

Full text available: pdf(4.24 MB) digital  
edition.

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 698, Downloads (12 Months): 1236, Citation Count: 0

**7** Communications of the ACM: Volume 51 Issue 5



May issue Volume 51 Issue 5  
2008

**Publisher:** ACM

Full text available: pdf(7.28 MB) digital  
edition.

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 355, Downloads (12 Months): 355, Citation Count: 0

**8** Seeing, hearing, and touching: putting it all together



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink  
August SI GGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available: pdf(20.64  
MB).

Additional Information: [full citation](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 274, Downloads (12 Months): 1618, Citation Count: 2

9 Communications of the ACM: Volume 51 Issue 1



January issue Volume 51 Issue 1  
2008

**Publisher:** ACM

Full text available: pdf(5.97 MB) digital  
edition.

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 908, Downloads (12 Months): 2862, Citation Count: 0

10 Bioinformatics—an introduction for computer scientists



Jacques Cohen  
June ACM Computing Surveys (CSUR), Volume 36 Issue 2  
2004

**Publisher:** ACM

Full text available: pdf(261.56  
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 178, Downloads (12 Months): 1364, Citation Count: 6

The article aims to introduce computer scientists to the new field of bioinformatics. This area has arisen from the needs of biologists to utilize and help interpret the vast amounts of data that are constantly being gathered in genomic research---and ...

Keyw ords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation and modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

11 The elements of nature: interactive and realistic techniques



Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf  
August SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004

**Publisher:** ACM

Full text available: pdf(17.65  
MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 268, Downloads (12 Months): 1447, Citation Count: 1

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives ...


## 12 Projectors: advanced graphics and vision techniques



Ramesh Raskar

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

**Publisher:** ACM

Full text available:  [pdf\(6.53 MB\)](#)

Additional Information: [full citation](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 121, Downloads (12 Months): 691, Citation Count: 1


## 13 Searching in metric spaces



Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín

September 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 3

**Publisher:** ACM

Full text available:  [pdf\(916.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 103, Downloads (12 Months): 482, Citation Count: 58

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information ...

Keyw ords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces


## 14 From entry to access: how shareability comes about



Eva Hornecker, Paul Marshall, Yvonne Rogers

August 2007 DPPI '07: Proceedings of the 2007 conference on Designing pleasurable products and interfaces

**Publisher:** ACM


Full text available:  [pdf\(862.89 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 44, Downloads (12 Months): 192, Citation Count: 0

Shareability is a design principle that refers to how a system, interface, or device engages a group of collocated, co-present users in shared interactions around the same content (or the same object). This is broken down in terms of a set of components ...

**15** [Archiving scientific data](#)

 Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan  
March ACM Transactions on Database Systems (TODS), Volume 29 Issue 1  
2004

**Publisher:** ACM

Full text available:  [pdf\(745.61 KB\)](#)


Additional Information: [full citation](#), [appendices and supplements](#),  
[abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 200, Citation Count: 7

Archiving is important for scientific data, where it is necessary to record all past versions of a database in order to verify findings based upon a specific version. Much scientific data is held in a hierachical format and has a key structure that provides ...

Keyw ords: Keys for XML

**16** [ACM SIGMOBILE Mobile Computing and Communications Review: Volume 9](#)

 [Issue 4](#)


October issue Volume 9 Issue 4  
2005

**Publisher:** ACM

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

**17** [Surf's up: the making of an animated documentary](#)

 Rob Bredow, David Schaub, Daniel Kramer, Matthew Hausman, Danny Dimian, R. Stirling Duguid

August SIGGRAPH '07: ACM SIGGRAPH 2007 courses  
2007

**Publisher:** ACM

Full text available:  [pdf\(152.86 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 68, Downloads (12 Months): 774, Citation Count: 0

The CG animated documentary *Surf's Up* called for unique production techniques to be leveraged throughout the creation of the film. This half day course presents an in-depth look at several of the key aspects of the production: • Integration ...

**18** [The US/Mexico border crossing card \(BCC\): a case study in biometric, machine-readable id](#)



Andrew Schulman

April CFP '02: Proceedings of the 12th annual conference on Computers, freedom and privacy  
2002

**Publisher:** ACM

Full text available: [htm\(187.31 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 231, Citation Count: 0

**19** [The basics of e-learning: an excerpt from handbook of human factors in web design](#)



Lisa Neal, Diane Miller

August eLearn, Volume 2005 Issue 8  
2005

**Publisher:** ACM

Full text available: [html\(121.89 KB\)](#) [Publisher Site](#)

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 43, Downloads (12 Months): 332, Citation Count: 1

**20** [Single-packet IP traceback](#)

Alex C. Snoeren, Craig Partridge, Luis A. Sanchez, Christine E. Jones, Fabrice Tchakountio, Beverly Schwartz, Stephen T. Kent, W. Timothy Strayer  
December IEEE/ ACM Transactions on Networking (TON), Volume 10 Issue 6  
2002

**Publisher:** IEEE Press

Full text available: [pdf\(528.41 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 137, Citation Count: 21

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, widespread packet forwarding techniques such as NAT and encapsulation may ...

**Keyw ords:** IP traceback, computer network management, computer network security, denial of service (DoS), network fault diagnosis, wide-area networks (WANs)

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